



Timothy Brandenburg  
Drilling Manager

**SCANNED**

DEC 22 2011  
ANC  
339.48.002

Union Oil Company of California  
3800 Centerpoint Drive  
Suite 100  
Anchorage, AK 99503  
Tel 907 263 7657  
Fax 907 263 7884  
Email brandenburt@chevron.com

RECEIVED

DEC 22 2011

DEC

Water Quality  
Mastewater Discharge Program

December 16, 2011

Mr. Chae Park  
U.S. Environmental Protection Agency  
Region 10, Water Compliance Section  
1200 Sixth Avenue, OW-133  
Seattle, WA 98101

RETURN RECEIPT REQUESTED - CERTIFIED MAIL 91 7108 2133 3938 6048 6491

Re: NPDES Permit No. AKG-31-5002  
Trading Bay Production Facility November 2011 Discharge Monitoring Reports (DMR)

Dear Mr. Park:

Union Oil Company of California ("Union") operates the Trading Bay Production Facility that discharges regulated effluents in Cook Inlet, Alaska under NPDES Permit No. AKG-31-5002. Pursuant to condition VI.B of the Permit, Union Oil Company of California is hereby submitting the November 2011 NPDES Discharge Monitoring Reports (DMRs) for the Trading Bay Production Facility.

Please take note that Union is using the forms provided by EPA with corrections to accommodate the reporting that is required by the permit. The corrections were approved by your Data Steward in an e-mail to Marilu Moreno-Jones dated September 3, 2010. Union plans to use this same format for future DMR submittals.

Consistent with the authorization in your e-mail of September 16, 2010, this letter certifies all of the 5 pages of DMRs for Trading Bay Production Facility attached to this letter.

If you have any questions, please direct them to Mr. Bill Britt at (907) 263-7830 or via e-mail at [brittb@chevron.com](mailto:brittb@chevron.com).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Best regards,

Timothy Brandenburg

cc: ADEC / Certified Mail 91 7108 2133 3938 6048 6507

**Mr. Chae Park**  
**US Environmental Protection Agency**  
**December 16, 2011**  
**Page 2**

**bcc: Susan Saupe, CIRCAC**  
**Facility Operations Supervisors**  
**HES 2011 NPDES DMR – TBPB File**  
**HES 2011 NPDES DMR – REGIONAL File**

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

**NAME:** UNION OIL COMPANY OF CALIFORNIA (UNOCAL)  
**ADDRESS:** P.O. BOX 196247  
ANCHORAGE, AK 99519-6247  
**FACILITY:** TRADING BAY TREATMENT FACILITY  
**LOCATION:** COOK INLET, Alaska  
**ATTN:** JOHN ZAGER, GENERAL MANAGER

AKG315002	015-A
<b>PERMIT NUMBER</b>	<b>DISCHARGE NUMBER</b>

**DMR Mailing ZIP CODE:** 99519  
**MINOR**  
(SUBR 02)  
**PRODUCED WATER AND SAND**  
External Outfall

MONITORING PERIOD			
MM/DD/YYYY		MM/DD/YYYY	
FROM	11/01/2011	TO	11/30/2011

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	<b>SAMPLE MEASUREMENT</b>	*****	*****	*****	NA	*****	NA	NA	NA	NA	NA
00400 V 0 See Comments	<b>PERMIT REQUIREMENT</b>	*****	*****	*****	6 MINIMUM	*****	9 MAXIMUM	SU		Monthly	GRAB
pH	<b>SAMPLE MEASUREMENT</b>	*****	*****	*****	6.8	*****	7.6	SU	0	Weekly	GRAB
00400 W 0 See Comments	<b>PERMIT REQUIREMENT</b>	*****	*****	*****	6 MINIMUM	*****	9 MAXIMUM	SU		Weekly	GRAB
Oil and grease	<b>SAMPLE MEASUREMENT</b>	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
03582 T 0 See Comments	<b>PERMIT REQUIREMENT</b>	*****	*****	*****	*****	29 MO AVG	42 DAILY MX	mg/L		Weekly	GRAB
Oil and grease	<b>SAMPLE MEASUREMENT</b>	*****	*****	*****	*****	24	30	mg/L	0	Weekly	COMP24
03582 U 0 See Comments	<b>PERMIT REQUIREMENT</b>	*****	*****	*****	*****	29 MO AVG	42 DAILY MX	mg/L		Weekly	COMP24
Flow, in conduit or thru treatment plant*	<b>SAMPLE MEASUREMENT</b>	3.444890	3.743796	Mgal/d	*****	*****	*****	*****	NA	Monthly	ESTIMA
50050 1 0 Effluent Gross	<b>PERMIT REQUIREMENT</b>	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	*****	*****	*****	*****		Monthly	ESTIMA
Produced water, free oil	<b>SAMPLE MEASUREMENT</b>	*****	NA	NA	*****	*****	*****	*****	NA	NA	NA
79834 1 0 Effluent Gross	<b>PERMIT REQUIREMENT</b>	*****	Req. Mon. MO TOTAL	occur/mo	*****	*****	*****	*****		Daily	VISUAL

<b>NAME/TITLE PRINCIPAL EXECUTIVE OFFICER</b> John Zager, General Manager Mid Continent/Alaska Business Unit <b>TYPED OR PRINTED</b>	<small>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</small>	<b>TELEPHONE</b>		<b>DATE</b>	
		(907) 276-7600		12/16/2011	
		<b>SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT</b>		<b>AREA Code</b>	<b>NUMBER</b>

**COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)**

NO DISCHARGE OF PRODUCED SAND IS ALLOWED  
T = GRAB SAMPLE  
U = COMPOSIT SAMPLE  
V = DISCHARGE < 1 MGD (PREVIOUS MONTHS AVG RATE)  
W = DISCHARGE > 1 MGD (PREVIOUS MONTHS AVG RATE)

\*Flow rates include deck drainage from Dolly Varden, Grayling, King Salmon, Monopod, and Steelhead Platforms.  
Estimated completion fluid flow rate: 0.033684 Mgal/d  
Estimated workover fluid flow rate: 0.025934 Mgal/d

## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

## DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

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NAME: UNION OIL COMPANY OF CALIFORNIA (UNOCAL)

ADDRESS: P.O. BOX 196247

ANCHORAGE, AK 99519-6247

FACILITY: TRADING BAY TREATMENT FACILITY

LOCATION: COOK INLET, Alaska

ATTN: JOHN ZAGER, GENERAL MANAGER

AKG315002

PERMIT NUMBER

015-A

DISCHARGE NUMBER

## MONITORING PERIOD

MM/DD/YYYY

11/01/2011

MM/DD/YYYY

11/30/2011

FROM

TO

DMR Mailing ZIP CODE: 99519

MINOR

(SUBR 02)

PRODUCED WATER AND SAND

External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Nitrogen, ammonia total (as N) 00610 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	No Sample	No Sample	mg/L	NA	Quarterly	GRAB
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Quarterly	GRAB
Silver total recoverable 01079 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	5	5	ug/L	0	Monthly	GRAB
	PERMIT REQUIREMENT	*****	*****	*****	*****	23 MO AVG	47 DAILY MX	ug/L		Monthly	GRAB
Silver total recoverable 01079 P 0 See Comments	SAMPLE MEASUREMENT	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
	PERMIT REQUIREMENT	*****	*****	*****	*****	23 MO AVG	47 DAILY MX	ug/L		Quarterly	CALCTD
Silver total recoverable 01079 Q 0 See Comments	SAMPLE MEASUREMENT	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
	PERMIT REQUIREMENT	*****	*****	*****	*****	23 MO AVG	47 DAILY MX	ug/L		Weekly	GRAB
Zinc, total recoverable 01094 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.03	0.03	mg/L	0	Monthly	GRAB
	PERMIT REQUIREMENT	*****	*****	*****	*****	0.9 MO AVG	1.9 DAILY MX	mg/L		Monthly	GRAB
Zinc, total recoverable 01094 P 0 See Comments	SAMPLE MEASUREMENT	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
	PERMIT REQUIREMENT	*****	*****	*****	*****	0.9 MO AVG	1.9 DAILY MX	mg/L		Monthly	GRAB
Zinc, total recoverable 01094 Q 0 See Comments	SAMPLE MEASUREMENT	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
	PERMIT REQUIREMENT	*****	*****	*****	*****	0.9 MO AVG	1.9 DAILY MX	mg/L		Quarterly	GRAB

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		(907) 276-7600		12/16/2011	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

P=MONT. REDUCE (II.G.6.a.1.)

Q=MONT INCREASE (II.G.6.a.2.)

R=ACCELERATED TESTING (III.A.7)

EPA Form 3320-1 (Rev.01/06) Previous editions may be used

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

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OMB No. 2040-0004

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**ATTN:** JOHN ZAGER, GENERAL MANAGER

AKG315002		015-A	
PERMIT NUMBER		DISCHARGE NUMBER	
MONITORING PERIOD			
MM/DD/YYYY		MM/DD/YYYY	
FROM 11/01/2011	TO	11/30/2011	

**DMR Mailing ZIP CODE:** 99519  
MINOR  
(SUBR 02)  
PRODUCED WATER AND SAND  
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Copper, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	4	4	ug/L	0	Monthly	GRAB
01119 1 0	PERMIT REQUIREMENT	*****	*****	*****	*****	47	117	ug/L		Monthly	GRAB
Effluent Gross						MO AVG	DAILY MX				
Copper, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
01119 P 0	PERMIT REQUIREMENT	*****	*****	*****	*****	47	117	ug/L		Quarterly	GRAB
See Comments						MO AVG	DAILY MX				
Copper, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
01119 Q 0	PERMIT REQUIREMENT	*****	*****	*****	*****	47	117	ug/L		Weekly	GRAB
See Comments						MO AVG	DAILY MX				
Manganese, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	2	2	mg/L	0	Monthly	GRAB
11123 1 0	PERMIT REQUIREMENT	*****	*****	*****	*****	25	50	mg/L		Monthly	GRAB
Effluent Gross						MO AVG	DAILY MX				
Manganese, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
11123 P 0	PERMIT REQUIREMENT	*****	*****	*****	*****	25	50	mg/L		Quarterly	GRAB
See Comments						MO AVG	DAILY MX				
Manganese, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
11123 Q 0	PERMIT REQUIREMENT	*****	*****	*****	*****	25	50	mg/L		Weekly	GRAB
See Comments						MO AVG	DAILY MX				
Total Aromatic Hydrocarbons	SAMPLE MEASUREMENT	*****	*****	*****	*****	10	10	mg/L	0	Monthly	GRAB
39942 1 0	PERMIT REQUIREMENT	*****	*****	*****	*****	18	27	mg/L		Monthly	GRAB
Effluent Gross						MO AVG	DAILY MX				

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		(907) 276-7600		12/16/2011
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AKG315002

PERMIT NUMBER

015-A

DISCHARGE NUMBER

DMR Mailing ZIP CODE: 99519

MINOR

(SUBR 02)

PRODUCED WATER AND SAND

External Outfall

## MONITORING PERIOD

MM/DD/YYYY

11/01/2011

MM/DD/YYYY

11/30/2011

FROM

TO

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Total Aromatic Hydrocarbons	SAMPLE MEASUREMENT	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
39942 P 0	PERMIT REQUIREMENT	*****	*****	*****	*****	18 MO AVG	27 DAILY MX	mg/L		Quarterly	GRAB
See Comments											
Total Aromatic Hydrocarbons	SAMPLE MEASUREMENT	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
39942 Q 0	PERMIT REQUIREMENT	*****	*****	*****	*****	18 MO AVG	27 DAILY MX	mg/L		Weekly	GRAB
See Comments											
Total Aqueous Hydrocarbons	SAMPLE MEASUREMENT	*****	*****	*****	*****	10	10	mg/L	0	Monthly	GRAB
50259 1 0	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
Effluent Gross											
Total Aqueous Hydrocarbons	SAMPLE MEASUREMENT	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
50259 P 0	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Quarterly	GRAB
Effluent Gross											
Total Aqueous Hydrocarbons	SAMPLE MEASUREMENT	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
50259 Q 0	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Weekly	GRAB
Effluent Gross											
Mercury, total (as Hg)	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.2	0.2	ug/L	0	Monthly	GRAB
71900 1 0	PERMIT REQUIREMENT	*****	*****	*****	*****	0.6 MO AVG	1.0 DAILY MX	ug/L		Monthly	GRAB
Effluent Gross											
Mercury, total (as Hg)	SAMPLE MEASUREMENT	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
71900 P 0	PERMIT REQUIREMENT	*****	*****	*****	*****	0.6 MO AVG	1.0 DAILY MX	ug/L		Quarterly	GRAB
See Comments											

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER  
OR AUTHORIZED AGENT

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MONITORING PERIOD				
MM/DD/YYYY		TO	MM/DD/YYYY	
FROM 11/01/2011			TO 11/30/2011	

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	<b>SAMPLE MEASUREMENT</b>	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
71900 Q 0	<b>PERMIT REQUIREMENT</b>	*****	*****	*****	*****	0.6 MO AVG	1.0 DAILY MX	ug/L		Weekly	GRAB
See Comments											
Toxicity, Chronic****	<b>SAMPLE MEASUREMENT</b>	*****	*****	*****	*****	No Sample	No Sample	NA	NA	NA	NA
Dendraster excentricus	<b>PERMIT REQUIREMENT</b>	*****	*****	*****	*****	283 MO AVG**	568 DAILY MX**	toxic		See Permit	GRAB
TT000 1 0											
See Comments***											
Toxicity, Chronic****	<b>SAMPLE MEASUREMENT</b>	*****	*****	*****	*****	No Sample	No Sample	NA	NA	NA	NA
Menidia beryllina	<b>PERMIT REQUIREMENT</b>	*****	*****	*****	*****	283 MO AVG**	568 DAILY MX**	toxic		See Permit	GRAB
TT000 1 0											
See Comments***											
Toxicity, Chronic****	<b>SAMPLE MEASUREMENT</b>	*****	*****	*****	*****	No Sample	No Sample	NA	NA	NA	NA
Mytilus galloprovincialis	<b>PERMIT REQUIREMENT</b>	*****	*****	*****	*****	283 MO AVG**	568 DAILY MX**	toxic		See Permit	GRAB
TT000 1 0											
See Comments***											
Toxicity, Chronic	<b>SAMPLE MEASUREMENT</b>	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
TT000 R 0	<b>PERMIT REQUIREMENT</b>	*****	*****	*****	*****	283 MO AVG	568 DAILY MX	toxic		See Permit	GRAB
See Comments											
Toxicity, Chronic	<b>SAMPLE MEASUREMENT</b>	*****	*****	*****	*****	NA	NA	NA	NA	NA	NA
TT000 Q 0	<b>PERMIT REQUIREMENT</b>	*****	*****	*****	*****	283 MO AVG	568 DAILY MX	toxic		See Permit	GRAB
See Comments											
Effluent Gross											

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John Zager, General Manager Mid Continent/Alaska Business Unit TYPED OR PRINTED		(907) 276-7600		12/16/2011	
	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

\*\*Section II.F.4 of the permit.

\*\*\*Reduced monitoring to two times per year due to compliance as per II.G.6.a.1 of Permit.

P=MONT. REDUCE (II.G.6.a.1.)

Q=MONT INCREASE (II.G.6.a.2.)

R=ACCELERATED TESTING (III.A.7)

\*\*\*\*Annual three species WET testing was conducted at the end of April and beginning of May 2011. Results were reported on the May 2011 DMR. Semiannual single species WET testing was conducted in August 2011 and results were reported on the August 2011 DMR.